

22 Civ. 2299 (LGS)

NETWORK DATA ROOMS, LLC vs SAULREALISM LLC et al
 Terry Patterson - independent expert review

Scope of Review Summary

Timelines for documents and instructions received

I received the documents and instructions on 5/24/2022 after signing the Non-Disclosure Agreement and confirmed my access to the NDR systems on same day.

Date	Description	Comments / Received from
5/23/2022	Signed a Non-Disclosure Agreement for the project.	Provided by hiring Agency
5/24/2022	Received "Court Transcript Part 1" and "Court Transcript Part 2", zipped and in PDF format.	Allyn & Fortuna LLP
5/24/2022	Received Court Order Re- Independent Expert in PDF format.	Allyn & Fortuna LLP
5/24/2022	Received three declarations: (1) "Saul Declaration", (2) "Delorge Declaration-Final", and (3) "Delorge Reply Declaration_signed" in PDF format.	Allyn & Fortuna LLP
5/24/2022	Received instructions and credentials to login to the NDR systems with full administrative access.	Allyn & Fortuna LLP forwarded instructions from David Delorge.
5/24/2022	Received user account and password to login to the NDR systems.	Allyn & Fortuna LLP forwarded my login credentials from Thomas Concannon.
5/26/2022	Received email requesting that I also perform an eDiscovery of communications between Thomas Concannon, David Delorge and Ryan Saul as indicated in item 16 "scope of review".	Allyn & Fortuna LLP
6/1/2022	Received "Order Re_Scope of Review" and "Order Appointing Independent Expert" in PDF format with instructions in same email to expand date for item 18 in "scope of review" to February 15, 2022.	Allyn & Fortuna LLP
6/6/2022	Received confirmation for credentials to login to the Virtual Machine.	Allyn & Fortuna LLP requested assistance from David Delorge. David Delorge sent email with login

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		information needed to access Virtual Machine.
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Timelines for documentation and system review

Date	Description	Comments / Hours worked
6/1/2022	Reviewed the three Declarations: (1) "Saul Declaration", (2) "Delorge Declaration-Final", and (3) "Delorge Reply Declaration_signed"	2 hours organizing and reviewing documents
6/2/2022	Reviewed Court Transcripts Part 1 and Part 2. Reviewed Court Order Re- Independent Expert.	2 hours spent on reviewing the transcripts
6/3/2022	Create a planning sheet to help me with the review	1 hour working on my plan for review
6/4/2022	Started review of Office 365 tenant, Azure DevOPS repository and Azure subscription	8 hours on Saturday reviewing and documenting findings.
6/5/2022	Continued review of Office 365 tenant, Azure DevOPS repository and Azure subscription. I was not able to login to the Virtual Machine to complete review.	6 hours on Sunday reviewing and documenting findings.
6/6/2022	Continued review of Office 365 tenant, Azure DevOPS repository and Azure subscription and Virtual Machine. Instructions provided and was able to login to the Virtual Machine.	4 hours on Monday reviewing and documenting findings.
6/7/2022	Updated final DRAFT to include timelines for documents received, adjust date for item 18 to February 15, 2022, and correct spelling.	1 hours on final draft

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The scope of review itemized below was obtained from the final "Order Re-Scope of Review" instruction PDF provided by Allyn & Fortuna LLP via emails.

Ref No	Scope of Review
1	Review, assess and describe the security measures in place for logging into NDRs Microsoft Azure Account.
2	Assess and determine to the extent possible whether Ryan Saul downloaded source code from NDR's Azure DevOPS repository
3	Review, assess and report on the files and branches that exists in NDR's Azure DEVOPS repository and/or were created between September 26,2021 and January 18,2022 including but not limited a branch called "Net Roadshow" or "Net Road Show"
4	Review the virtual machine assigned to Ryan Saul and assess whether code was deployed from the virtual machine. As part of the review of the virtual machine, assess login and activity records from the virtual machine.
5	Review, assess and report on whether Ryan Saul saved all code developed between September 26,2021 and January 18,2022 in the Azure DevOPS repository.
6	Review, assess, and report on whether the decompiled code that is currently in NDR's repository is representative of the deployed code reflected on the deal table website.
7	Review, assess, and report as to the last date decompiled source code was committed to any branch on NDRs Azure DEVOPS repository including but not limited to branches called "Net Road Show" and "Ryan Development"
8	Review and assess the deployment logs between September 26,2021 and January 18,2022 and compare them to the deployment logs with deployments made by Ryan Saul prior to September 26,2021 and report on any differences as to from where the deployments originated. To the extent possible, determine whether the deployments were made from Microsoft Visual Studio or a GitHub or other third-party repository.
9	Review, assess and report on whether Ryan Saul deployed all code deployed between September 26,2021 and January 18,2022 from Azure DevOPS repository
10	Review, assess, and report on whether changes made to the code between September 26,2021 and January 18,2022 were made from the Azure DevOPS repository.

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11	Review, assess, and report on whether any decompiled code from between September 26,2021 and January 18,2022 is saved into NDRs Azure DevOPS repository
12	Review, assess, and report on whether any decompiled code from between September 26,2021 and January 18,2022 was saved into NDRs Azure DevOPS repository but at some point, deleted?
13	Review the activity from January 18,2022 and, to the extent possible, assess and report on whether the NDR website, certificate, database, and connectivity were deleted, what caused the deletion, from where the deletion was initiated, and who initiated the deletion.
14	Review the login activity of January 18,2022 to determine the machines used by Ryan Saul to access NDR's system, the manner and from where Ryan Saul was attempting to access NDR's system, the locations, and IP addresses from where attempts were being made to access NDR's system.
15	Review and assess the GUID program installed on Ryan Saul's virtual machine and report on what purpose the GUID program serves if code is being deployed directly from NDR's Azure DevOPS repository.
16	Review, assess, and report on the time, frequency and participants involved in MS teams daily scrub meetings held between September 26,2021 and January 18,2022.
17	Review, assess and report on any other information and records the independent expert deems pertinent.
18	Review and report all the users to the NDRs Microsoft Azure account from September 26,2021 through February 15,2022, including a description of security level, permissions, and access but without disclosing information that would compromise the security of NDR's Microsoft Azure Account.

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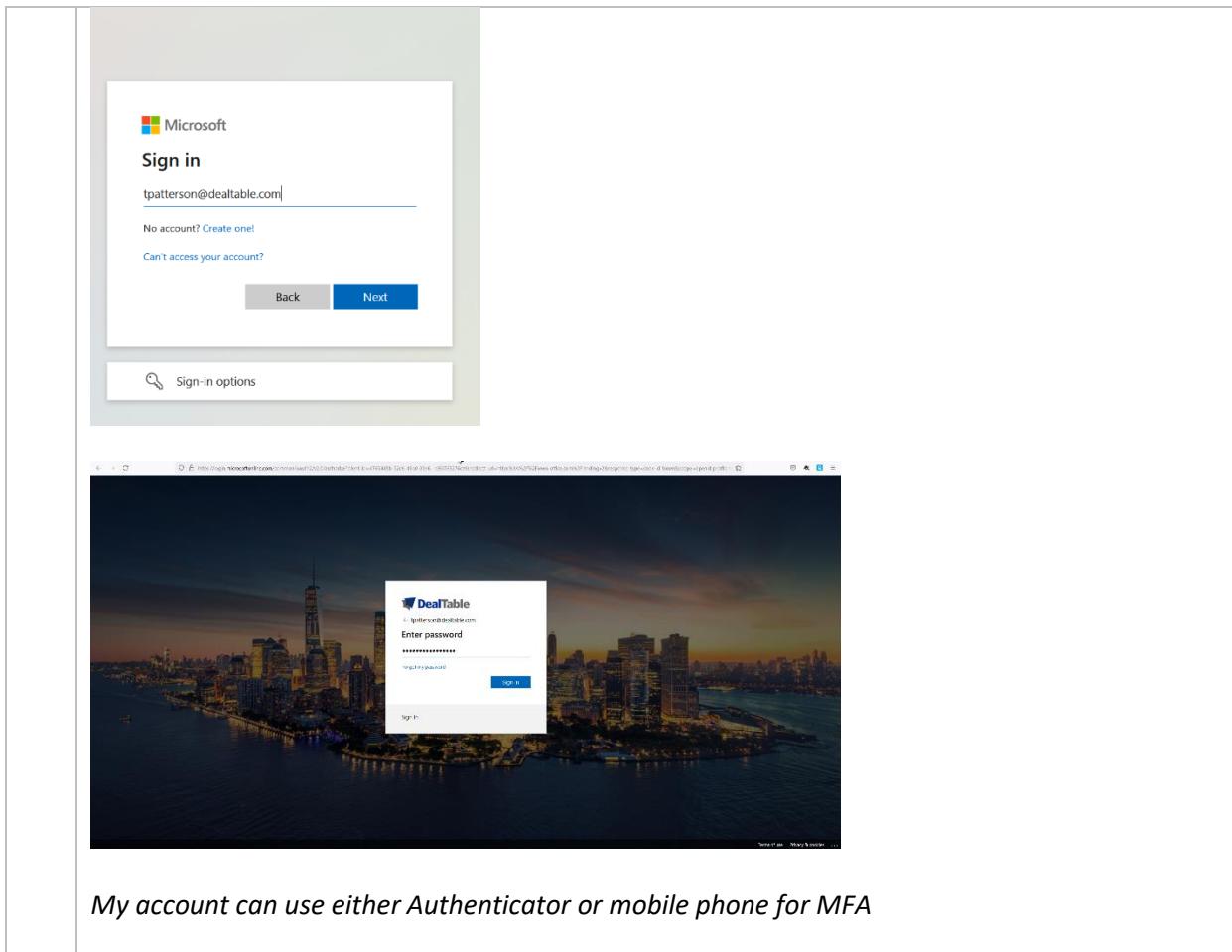
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Scope of Review Details

Ref No	Description Reference Link Screen Print
1	<i>Review, assess and describe the security measures in place for logging into NDRs Microsoft Azure Account.</i>
1.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> 1. NDA follows Microsoft recommended best practices and enforces Multi-Factor Authentication (MFA) logins by using Azure Active Directory Premium Conditional Access Policies. 2. Another user, including NDR admins, would require the developer user account, user account password and would need to have access to their MFA device (mobile phone) to be able to login as that user. <p><u>Reviewer Summary</u></p> <ol style="list-style-type: none"> 1. I have assessed from the controls in place that a breach of this developer account was highly unlikely and only the developer could have used their account to login to systems.
1.2	<p>Microsoft References</p> <ol style="list-style-type: none"> 1. https://www.microsoft.com/security/blog/2019/08/20/one-simple-action-you-can-take-to-prevent-99-9-percent-of-account-attacks/ 2. https://docs.microsoft.com/en-us/azure/active-directory/authentication/concept-authentication-phone-options
1.3	Login validation using my assigned login and MFA to demonstrate

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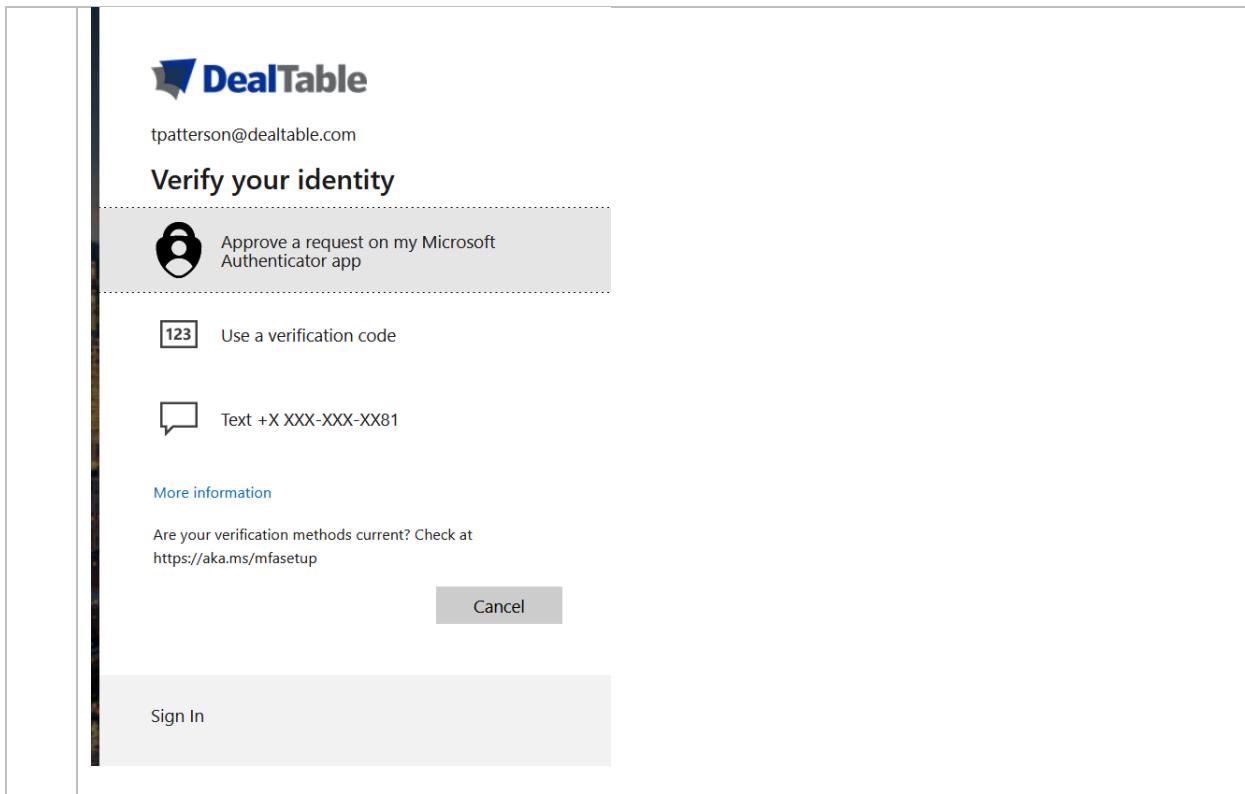
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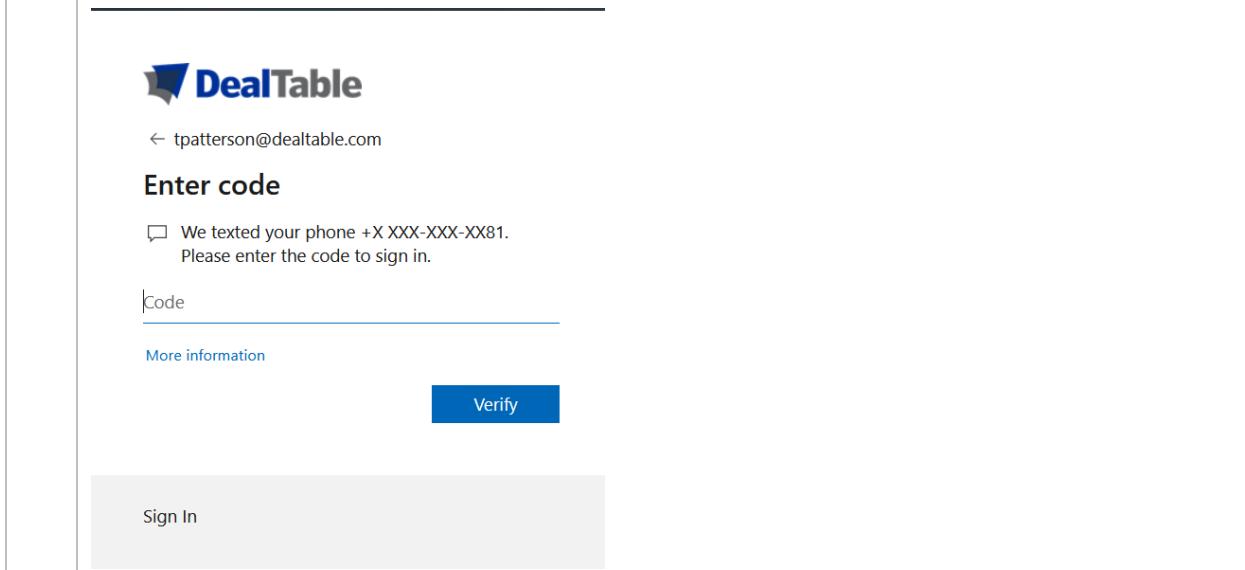
My account can use either Authenticator or mobile phone for MFA

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The image shows a screenshot of a DealTable verification page. At the top, the DealTable logo is displayed with the email address tpatterson@dealtable.com. Below this, the heading "Verify your identity" is centered. There are three options for verification: 1. Approve a request on my Microsoft Authenticator app (represented by a smartphone icon), 2. Use a verification code (represented by a 123 icon), and 3. Text +X XXX-XXX-XX81 (represented by a speech bubble icon). A "More information" link and a "Cancel" button are also present. A "Sign In" button is located at the bottom of the main section. A vertical dark bar is on the left side of the page.



The image shows a screenshot of a DealTable verification page. At the top, the DealTable logo is displayed with the email address tpatterson@dealtable.com. Below this, the heading "Enter code" is centered. A message states: "We texted your phone +X XXX-XXX-XX81. Please enter the code to sign in." Below this is a text input field labeled "Code" and a "Verify" button. A "More information" link is also present. A "Sign In" button is located at the bottom of the main section. A vertical dark bar is on the left side of the page.

Without my phone or access to text messages or Authenticator I would not be able to login.

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2	<i>Assess and determine to the extent possible whether Ryan Saul downloaded source code from NDR's Azure DevOPS repository.</i>
2.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> 1. Developers generally must download source code from the repository to the local PC to make changes and then typically check the source code back into the code repository once they have completed testing on their local developer PC. 2. In many cases, including this project the developer(s) had created several branches from the “main” code repository which aligns with developer best practices. 3. There is no restriction preventing the code from being downloaded to any PC provided that the user account who downloads the code is authorized and connects to the Azure DevOPS repository using their credentials and MFA to access the code. <p><u>Reviewer Summary</u></p> <ol style="list-style-type: none"> 1. I have assessed that Ryan Saul must have downloaded the code to a PC to make changes and complete builds for the web site between period 9/26/2021 and 1/18/2022.
2.2	<p>Stale Branch Reference / code branching</p> <ol style="list-style-type: none"> 1. https://en.wikipedia.org/wiki/Branching_(version_control)

3	<i>Review, assess and report on the files and branches that exists in NDR's Azure DEVOPS repository and/or were created between September 26,2021 and January 18,2022 including but not limited a branch called "Net Roadshow" or "Net Road Show"</i>
3.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> 1. There is a master repository and 13 branches in the NDR-2021 source repository 2. There were no code commits to any branches in Azure DevOPS including branches "Net Roadshow" or "Net Road Show" any time between 9/26/2021 and 1/18/2022. <p><u>Reviewer Summary</u></p> <ol style="list-style-type: none"> 1. I have assessed that Ryan Saul did not commit any code changes made between 9/26/2021 and 1/18/2022 to any branch in NDRs Azure DevOPS repositories.
3.2	<i>Screen prints from the Azure DevOPS repository showing master and all branches for the code.</i>

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4	<p>Review the virtual machine assigned to Ryan Saul and assess whether code was deployed from the virtual machine. As part of the review of the virtual machine, assess login and activity records from the virtual machine.</p>
4.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> 1. I found a folder on the virtual machine called code\new\NDR-2-21\DealTable which had a codebase last modified on 1/18/2021 (seems to be a very old codebase) 2. I also confirmed that the c:\users\ndradmin\source\repos was empty. 3. The code located on the Virtual machine is very outdated. <p>Reviewer Summary</p> <ol style="list-style-type: none"> 1. It is my assessment that that code was not deployed from this Virtual Machine to the deal table web site between 9/26/2021 and 1/18/2022.
4.2	<p><i>Screen print from Virtual Machine showing old code from 1/18/2021</i></p>

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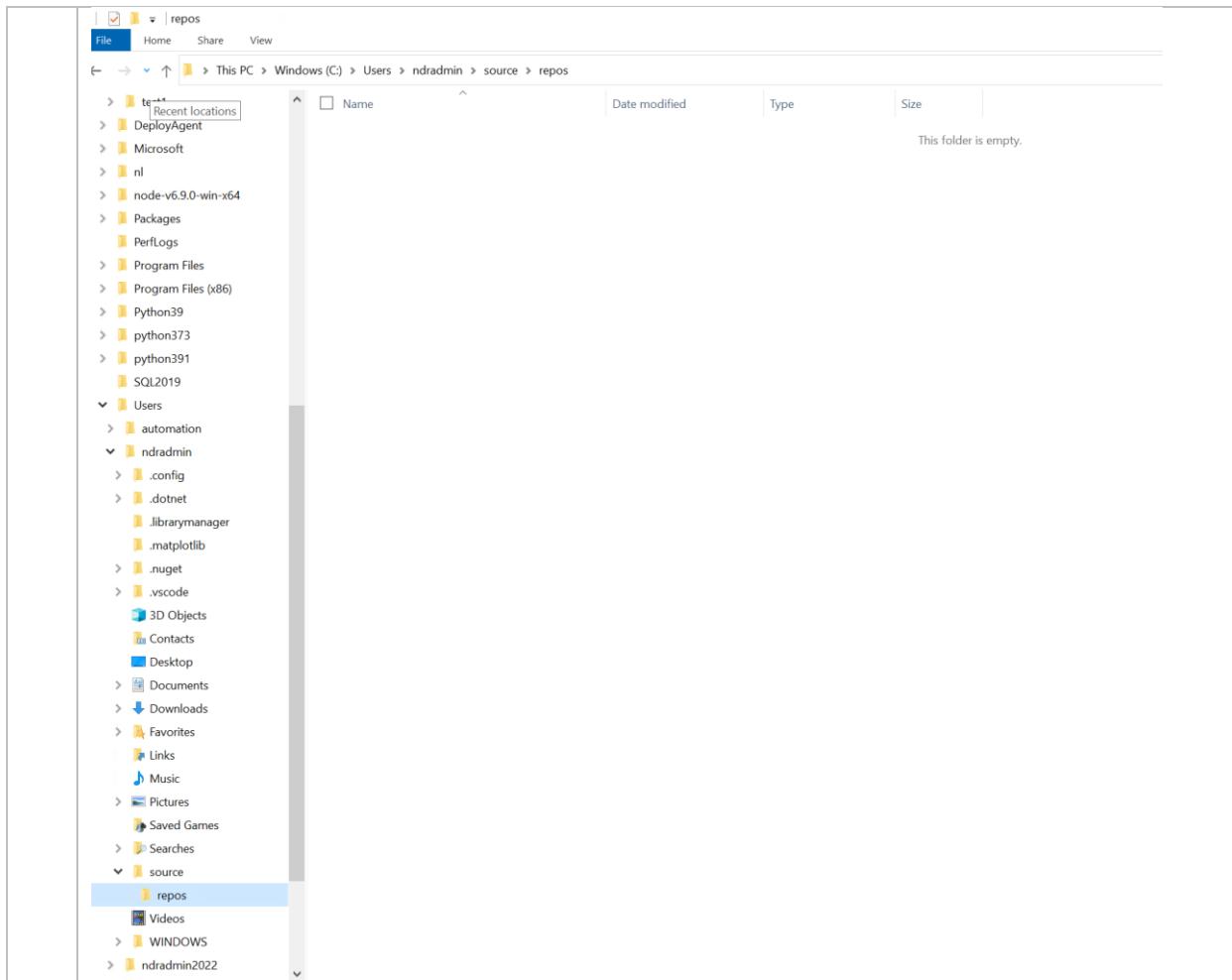
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4.3 <i>Screen print from Virtual Machine showing no code in the local PC source folder</i>					

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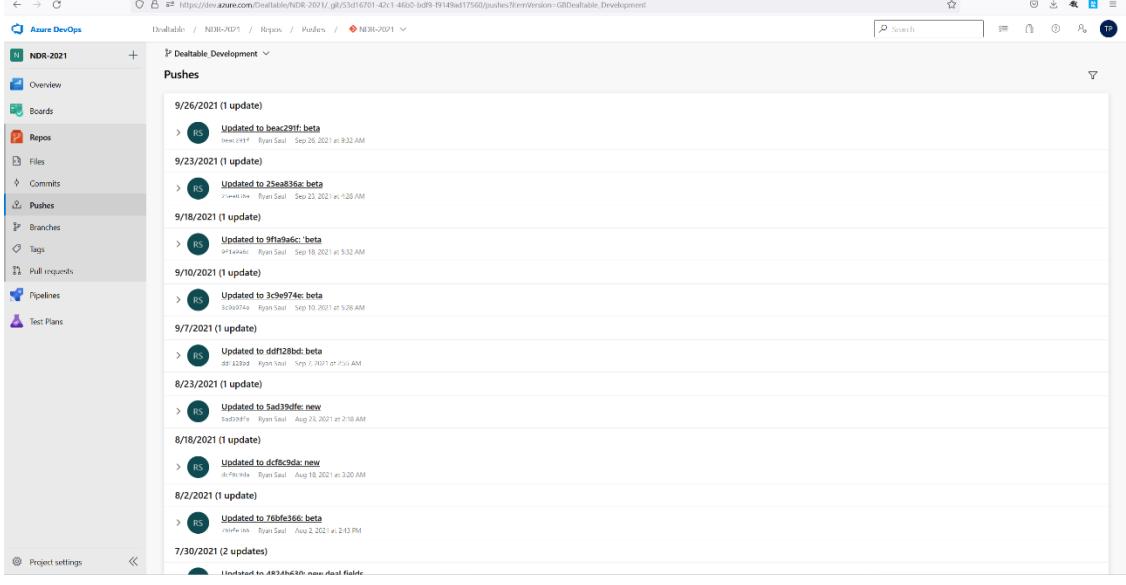
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5	Review, assess and report on whether Ryan Saul saved all code developed between September 26,2021 and January 18,2022 in the Azure DevOPS repository.
5.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> 1. Change logs track all changes, including new commits, made to an Azure DevOPS repository for audit and compliance. 2. Ryan Saul committed last updates to Azure DevOPS were on 9/26/21 at 9.32 am based on Azure DevOPS tracking logs. <p><u>Reviewer Summary</u></p> <ol style="list-style-type: none"> 1. It is my assessment that that no code was saved to the Azure DevOPS repository between 9/26/2021 and 1/18/2022.

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5.2	<p><i>Screen prints from the Azure DevOPS repository.</i></p> 
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6	<p>Review, assess, and report on whether the decompiled code that is currently in NDR's repository is representative of the deployed code reflected on the deal table website.</p>
6.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> 1. The code deployed to the NDR developer deal table web site does not match the NDR-2021 main branch or any branch in the NDR's repository. 2. The last build on the web site was 1/13/2022 and the code last updated in the NDR's repository was recorded as 9/26/2021. <p>Reviewer Summary</p> <ol style="list-style-type: none"> 1. It is my assessment that that the code in NDR's repository is outdated and not reflective of the runtime code on the deal table web site.
6.2	<p><i>Screen print of code runtime components on web site, sorted by the last updated date to the web server.</i></p>

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AutoSave On Document Summary • Saved

File Home Insert Draw Page Layout Formulas Data Review View Help Load Test

Cut Copy Format Painter Paste Undo Clipboard

Font Alignment

Date

A5 1/13/2022

	A	B	C	D	E	F
1	Date	Time	C:\home\s\wwwroot			
2	1/19/2022	7:03 PM	<DIR>	.		
3	1/19/2022	7:03 PM	<DIR>	..		
5	1/13/2022	7:09 PM	802	appsettings.json		
12	1/19/2022	7:01 PM	<DIR>	cs		
13	1/19/2022	7:01 PM	<DIR>	de		
14	1/13/2022	8:02 PM	277,112	DealTable.deps.json		
15	1/13/2022	8:01 PM	1,477,120	DealTable.dll		
16	1/13/2022	8:01 PM	174,592	DealTable.exe		
17	1/13/2022	8:01 PM	398,184	DealTable.pdb		
18	12/28/2021	9:07 AM	311	DealTable.runtimeconfig.json		
19	1/13/2022	8:02 PM	6,141,440	DealTable.Views.dll		
20	1/13/2022	8:02 PM	649,844	DealTable.Views.pdb		
23	12/14/2021	3:40 PM	3,268,096	EPPlus.dll		
24	1/19/2022	7:01 PM	<DIR>	es		
25	1/19/2022	7:01 PM	<DIR>	fr		
26	1/19/2022	7:01 PM	<DIR>	it		
36	1/19/2022	7:01 PM	<DIR>	ja		
37	1/19/2022	7:01 PM	<DIR>	ko		
38	10/24/2021	4:04 AM	41,360	Microsoft.AspNetCore.Cryptography.Internal.dll		
39	10/24/2021	4:07 AM	21,392	Microsoft.AspNetCore.Cryptography.KeyDerivation.dll		
41	10/24/2021	4:08 AM	98,192	Microsoft.AspNetCore.Identity.EntityFrameworkCore.dll		
42	10/24/2021	4:10 AM	203,152	Microsoft.AspNetCore.Identity.UI.dll		
43	10/24/2021	4:14 AM	351,096	Microsoft.AspNetCore.Identity.UI.Views.V3.dll		
44	10/24/2021	4:15 AM	354,680	Microsoft.AspNetCore.Identity.UI.Views.V4.dll		
56	10/23/2021	3:39 AM	149,384	Microsoft.Data.Sqlite.dll		
58	10/23/2021	3:39 AM	20,872	Microsoft.EntityFrameworkCore.Abstractions.dll		
59	10/23/2021	3:40 AM	1,561,472	Microsoft.EntityFrameworkCore.dll		
60	10/23/2021	3:40 AM	862,080	Microsoft.EntityFrameworkCore.Relational.dll		
61	10/23/2021	3:40 AM	149,384	Microsoft.EntityFrameworkCore.Sqlite.dll		
62	10/23/2021	3:40 AM	292,232	Microsoft.EntityFrameworkCore.SqlServer.dll		
63	10/23/2021	2:47 AM	27,024	Microsoft.Extensions.Caching.Abstractions.dll		
64	10/23/2021	2:48 AM	32,656	Microsoft.Extensions.Caching.Memory.dll		
65	10/23/2021	2:48 AM	21,392	Microsoft.Extensions.Configuration.Abstractions.dll		
66	10/23/2021	2:48 AM	25,488	Microsoft.Extensions.Configuration.Binder.dll		
67	10/23/2021	2:48 AM	27,536	Microsoft.Extensions.Configuration.dll		
70	10/23/2021	2:48 AM	37,776	Microsoft.Extensions.DependencyInjection.Abstractions.dll		
71	10/23/2021	2:48 AM	71,568	Microsoft.Extensions.DependencyInjection.dll		
73	10/23/2021	2:48 AM	17,808	Microsoft.Extensions.FileProviders.Abstractions.dll		

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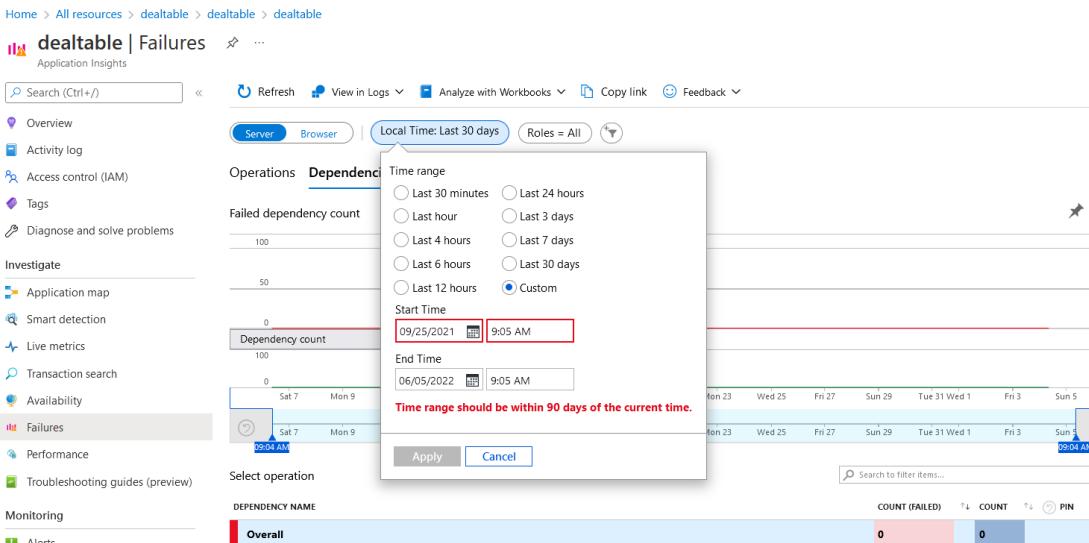
Branches							
	Branch	Commits	Author	Authored Date	Behind Ahead	Status	Pull Request
	deletable-pipeline-01	4151429b	David Delorge	Feb 1, 2021	32 1	✓ succeeded	13 6
	Delorge, David J	78e084ef2	Justin Rivera	Apr 27, 2021	0 0		
	master Default Compare	78e084ef7	Justin Rivera	Apr 27, 2021			★
	onhificeintegration	895f59fb2	Justin Rivera	May 11, 2021	1 27		13 7
	Deletable_Testing	387484931	Nobody	Jun 14, 2021	1 38		
	Ryan	38238193	Nobody	Jun 14, 2021	1 38		
	Ryan-Development	88ff1122f	Nobody	Jun 24, 2021	1 41		13 11
	workflows	951e0f0ea	Nobody	Jun 28, 2021	1 51		
	Global Dashboard	6a4cc5a6	Alekhya Guntupalli	Jun 30, 2021	1 49		13 13
	Deletable_Development_Notifications	f4ca882d	Alekhya Guntupalli	Jul 3, 2021	1 24		
	Deletable_Document	c187a6884	Alekhya Guntupalli	Jul 10, 2021	1 22		
	Deletable_fixes_0710	96dd5d72	Alekhya Guntupalli	Jul 20, 2021	1 131		
	Deletable_changes	ab4aee593	Alekhya Guntupalli	Jul 23, 2021	1 118		
	Deletable_Development	beac251f	Nobody	Sep 26, 2021	1 10		1 behind and 149 ahead of compare branch

7	Review, assess, and report as to the last date decompiled source code was committed to any branch on NDRs Azure DEVOPS repository including but not limited to branches called "Net Road Show" and "Ryan Development"
7.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> 1. The last build on the web site shows a build date of 1/13/2022 and the Azure repository shows last code was uploaded to NDRs Azure DEVOPS repository on 9/26/2021 2. I checked all the code repositories and branches to validate that there were no code updates made to any of the NDRs Azure DEVOPS repositories by anyone between 9/26/2021 and 1/18/2022. <p>Reviewer Summary</p> <ol style="list-style-type: none"> 1. It is my assessment that no code was committed to any braches in NDRs Azure DEVOPS repository between 9/26/2021 and 1/18/2022.

8	Review and assess the deployment logs between September 26,2021 and January 18,2022 and compare them to the deployment logs with deployments made by Ryan Saul prior to September 26,2021 and report on any differences as to from where the deployments originated. To the extent possible, determine whether the deployments were made from Microsoft Visual Studio or a GitHub or other third-party repository.
8.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> 1. The last build on the web site was 1/13/2022 and the Azure repository shows last updated as of 9/26/2021 2. There are no logs available in Azure to show where other deployments were made from. 3. Azure application deployment logs are kept for 90 days and then recycled.

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	<p>4. Azure sign-in and Audit Logs are kept for 30 days and then recycled.</p> <p>Reviewer Summary</p> <p>1. I am not able to review or provide an assessment on this information since Azure sign-in / Audit Logs and the Azure application logs are no longer accessible.</p>
8.2	<p><i>Azure Application log retention is 90 days</i></p> 
8.3	<p><i>Azure Sign-In and Audit log retention is 30 days</i></p>

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9	Review, assess and report on whether Ryan Saul deployed all code deployed between September 26,2021 and January 18,2022 from Azure DevOPS repository
9.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> Code in the Azure DevOPS repository is not the latest code, it was last updated on 9/26/2021. There are missing code updates in the Azure DevOPS repository which indicate code was likely deployed from another source. <p>Reviewer Summary</p> <ol style="list-style-type: none"> It is my assessment that no deployments were made to the Azure web server from the Azure DevOPS repository between 9/26/2021 and 1/18/2022.
9.2	<i>Based on logs the last repo updates checked-in were on 9/26/2021 and last deployment was 1/13/2022</i>

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Branches						
	Branch	Commits	Author	Authored Date	Behind Ahead	Status
	dealtable-pipeline-01	4151429b	David Dolorge	Feb 1, 2021	32 1	succeeded
	Delorge, David J	78e08ef2	Justin Rivera	Apr 27, 2021	0 0	
	master Default Compare	78e08ef2	Justin Rivera	Apr 27, 2021		
	onofficelinteration	895f59b2	Nobody	May 11, 2021	1 27	
	Dealtable_Testing	38748f93	Nobody	Jun 14, 2021	1 38	
	Ryan	38238f93	Nobody	Jun 14, 2021	1 38	
	Ryan-Development	88ff1122	Nobody	Jun 24, 2021	1 41	
	workflows	951e0fca	Nobody	Jun 28, 2021	1 51	
	Global Dashboard	6a4cc5a6	Alekhya Guntupalli	Jun 30, 2021	1 49	
	Dealtable_Development_Notifications	f4ca8824	Alekhya Guntupalli	Jul 3, 2021	1 24	
	Dealtable_Document	c187ae88	Alekhya Guntupalli	Jul 10, 2021	1 22	
	Dealtable_fixes_0710	96dd5d72	Alekhya Guntupalli	Jul 20, 2021	1 131	
	Dealtable_changes	ab4aee93	Alekhya Guntupalli	Jul 23, 2021	1 118	
	Dealtable_Development	beac251f	Nobody	Sep 26, 2021	1 40	

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Document Summary • Saved					
File	Home	Insert	Draw	Page Layout	Formulas
AutoSave	On	Clipboard	Font	Alignment	Number
A5	:	x ✓ fx	1/13/2022		
1	Date	Time	C:\home\s\wwwroot		
2	1/19/2022	7:03 PM	<DIR>	.	
3	1/19/2022	7:03 PM	<DIR>	..	
5	1/13/2022	7:09 PM	802	appsettings.json	
12	1/19/2022	7:01 PM	<DIR>	cs	
13	1/19/2022	7:01 PM	<DIR>	de	
14	1/13/2022	8:02 PM	277,112	DealTable.deps.json	
15	1/13/2022	8:01 PM	1,477,120	DealTable.dll	
16	1/13/2022	8:01 PM	174,592	DealTable.exe	
17	1/13/2022	8:01 PM	398,184	DealTable.pdb	
18	12/28/2021	9:07 AM	311	DealTable.runtimeconfig.json	
19	1/13/2022	8:02 PM	6,141,440	DealTable.Views.dll	
20	1/13/2022	8:02 PM	649,844	DealTable.Views.pdb	
23	12/14/2021	3:40 PM	3,268,096	EPPlus.dll	
24	1/19/2022	7:01 PM	<DIR>	es	
25	1/19/2022	7:01 PM	<DIR>	fr	
26	1/19/2022	7:01 PM	<DIR>	it	
36	1/19/2022	7:01 PM	<DIR>	ja	
37	1/19/2022	7:01 PM	<DIR>	ko	
38	10/24/2021	4:04 AM	41,360	Microsoft.AspNetCore.Cryptography.Internal.dll	
39	10/24/2021	4:07 AM	21,392	Microsoft.AspNetCore.Cryptography.KeyDerivation.dll	
41	10/24/2021	4:08 AM	98,192	Microsoft.AspNetCore.Identity.EntityFrameworkCore.dll	
42	10/24/2021	4:10 AM	203,152	Microsoft.AspNetCore.Identity.UI.dll	
43	10/24/2021	4:14 AM	351,096	Microsoft.AspNetCore.Identity.UI.Views.V3.dll	
44	10/24/2021	4:15 AM	354,680	Microsoft.AspNetCore.Identity.UI.Views.V4.dll	
56	10/23/2021	3:39 AM	149,384	Microsoft.Data.Sqlite.dll	
58	10/23/2021	3:39 AM	20,872	Microsoft.EntityFrameworkCore.Abstractions.dll	
59	10/23/2021	3:40 AM	1,561,472	Microsoft.EntityFrameworkCore.dll	
60	10/23/2021	3:40 AM	862,080	Microsoft.EntityFrameworkCore.Relational.dll	
61	10/23/2021	3:40 AM	149,384	Microsoft.EntityFrameworkCore.Sqlite.dll	
62	10/23/2021	3:40 AM	292,232	Microsoft.EntityFrameworkCore.SqlServer.dll	
63	10/23/2021	2:47 AM	27,024	Microsoft.Extensions.Caching.Abstractions.dll	
64	10/23/2021	2:48 AM	32,656	Microsoft.Extensions.Caching.Memory.dll	
65	10/23/2021	2:48 AM	21,392	Microsoft.Extensions.Configuration.Abstractions.dll	
66	10/23/2021	2:48 AM	25,488	Microsoft.Extensions.Configuration.Binder.dll	
67	10/23/2021	2:48 AM	27,536	Microsoft.Extensions.Configuration.dll	
70	10/23/2021	2:48 AM	37,776	Microsoft.Extensions.DependencyInjection.Abstractions.dll	
71	10/23/2021	2:48 AM	71,568	Microsoft.Extensions.DependencyInjection.dll	
73	10/23/2021	2:48 AM	17,808	Microsoft.Extensions.FileProviders.Abstractions.dll	

10	Review, assess, and report on whether changes made to the code between September 26,2021 and January 18,2022 were made from the Azure DevOPS repository.
10.1	Reviewers Comments

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	<ol style="list-style-type: none"> 1. Code in the Azure DevOPS repository was last updated 9/26/2021. 2. The code changes made between 9/26/2021 and 1/18/2022 are not in the Azure DevOPS repository. <p><u>Reviewer Summary</u></p> <ol style="list-style-type: none"> 1. It is my assessment that code changes were not made from the Azure DevOPS repository since it does not contain the latest code version.
--	---

11	Review, assess, and report on whether any decompiled code from between September 26,2021 and January 18,2022 is saved into NDRs Azure DevOPS repository
11.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> 1. No decompiled code was saved to the Azure DevOPS repository after 9/26/2021 <p><u>Reviewer Summary</u></p> <ol style="list-style-type: none"> 1. It is my assessment there were no decompiled source commits made to the Azure DevOPS repository after 9/26/2021.

12	Review, assess, and report on whether any decompiled code from between September 26,2021 and January 18,2022 was saved into NDRs Azure DevOPS repository but at some point, deleted?
12.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> 1. Azure DevOPS repository shows no deletions were made from NDRs Azure DevOPS repository. 2. The repository logs cannot be altered. <p><u>Reviewer Summary</u></p> <ol style="list-style-type: none"> 1. I have assessed that there were no deletes made in the NDRs Azure DevOPS repositories.
12.2	<i>Screen print from Azure DevOPS shows no deletes or activity after 9/26/2022</i>

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Dealable_Development / Type to find a file or folder...

Files

Contents History

Graph Commit

Commit	Author	Date
beta beac291f	Nobody	Sep 26, 2021 at 9:32 AM
beta 25ea836a	Nobody	Sep 23, 2021 at 4:28 AM
'beta 9f1a9a6c	Nobody	Sep 18, 2021 at 5:30 AM
beta 3c9e974e	Nobody	Sep 10, 2021 at 5:25 AM
beta ddf128bd	Nobody	Sep 7, 2021 at 2:55 AM
new 5ad39dfe	Nobody	Aug 23, 2021 at 2:17 AM
new dcf8c9da	Nobody	Aug 18, 2021 at 3:19 AM
beta 76bfe366	Nobody	Aug 2, 2021 at 2:42 PM
new deal fields 4824b630	Nobody	Jul 30, 2021 at 4:10 PM
beta ea8ba33b	Nobody	Jul 30, 2021 at 1:51 PM
beta 99b8cb8f	Nobody	Jul 28, 2021 at 3:47 AM
beta 42e1057f	Nobody	Jul 26, 2021 at 2:55 PM
beta ce1909c5	Nobody	Jul 25, 2021 at 11:51 PM
fix(code): usind attributes instead of split ab4ae603	Alekhya Guntupalli	Jul 23, 2021 at 7:49 AM

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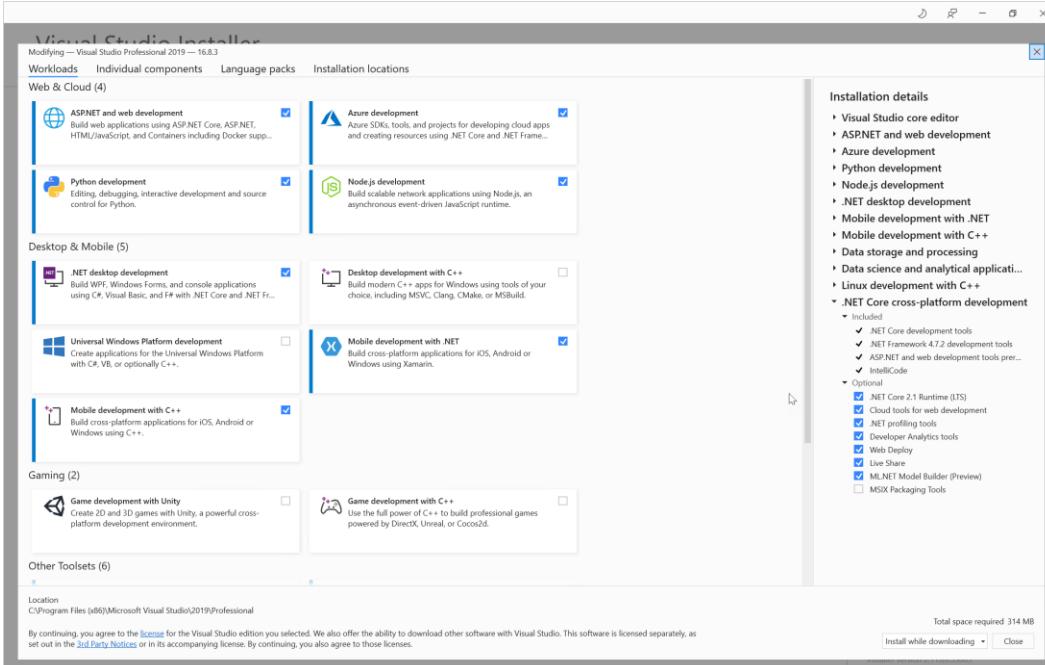
13	Review the activity from January 18,2022 and, to the extent possible, assess and report on whether the NDR website, certificate, database, and connectivity were deleted, what caused the deletion, from where the deletion was initiated, and who initiated the deletion.
13.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> 1. There are no logs available to show if deletions were made to Web Site, certificates, or database. 2. Azure Event and Sign-In logs are kept for 30 days and then recycled. <p><u>Reviewer Summary</u></p> <ol style="list-style-type: none"> 1. I am not able to determine if these deletions were made, logs are only available for 30 days and have been recycled .

14	Review the login activity of January 18,2022 to determine the machines used by Ryan Saul to access NDR's system, the manner and from where Ryan Saul was attempting to access NDR's system, the locations, and IP addresses from where attempts were being made to access NDR's system.
14.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> 1. There are no logs available to show sign-in information for Ryan Saul. 2. Azure Event and Sign-In logs are kept for 30 days and then recycled. <p><u>Reviewer Summary</u></p> <ol style="list-style-type: none"> 1. I am not able to determine if sign-in attempts were made to access the system, logs are only available for 30 days and have been recycled .

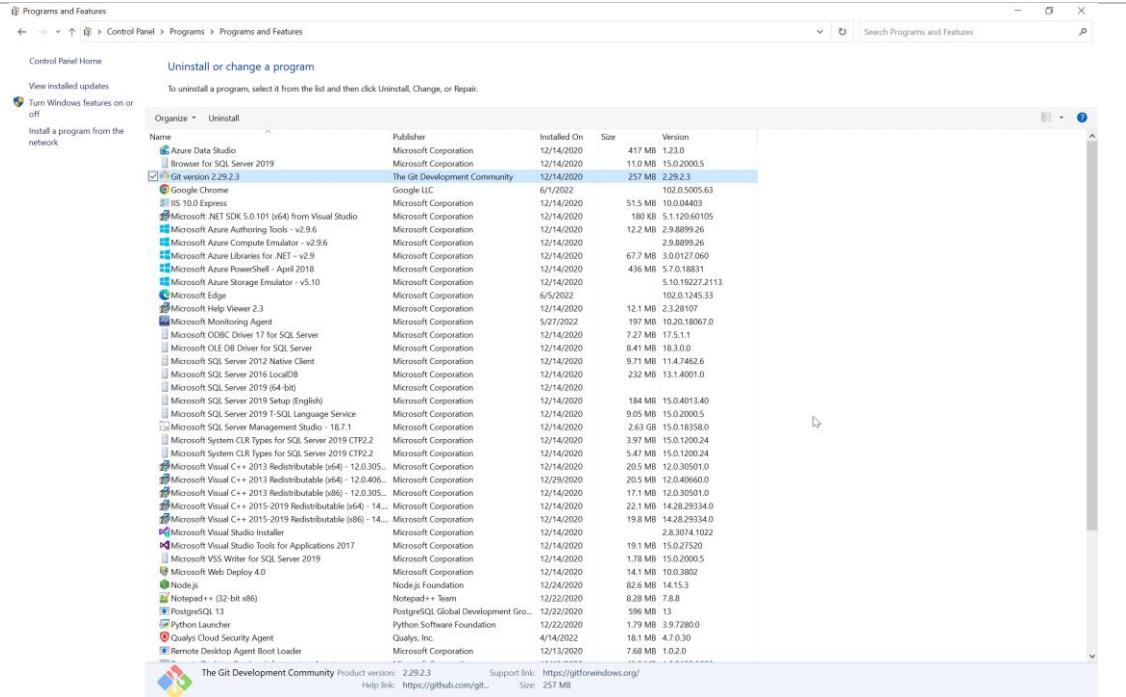
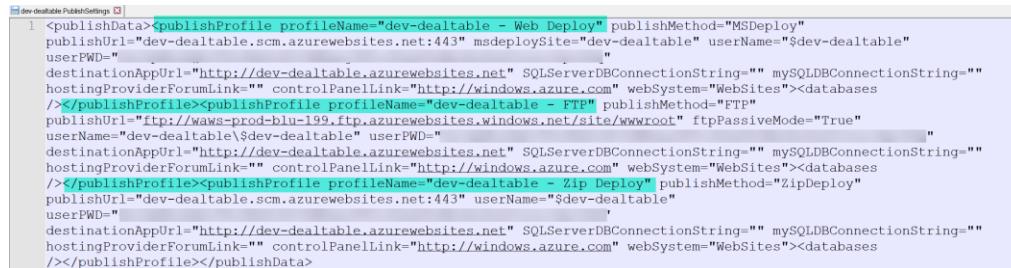
15	Review and assess the GUID program installed on Ryan Saul's virtual machine and report on what purpose the GUID program serves if code is being deployed directly from NDR's Azure DevOPS repository.
15.2	<p><u>Reviewers Comments</u></p> <ol style="list-style-type: none"> 1. I was able to connect to the Virtual Machine and list out all the installations. 2. Visual Studio was installed as expected. 3. Git was also installed to the Virtual Machine but is not needed. 4. Visual Studio supports multiple deployment methods and developers can configure and use any of these methods within Visual Studio.

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	<p>Reviewer Summary</p> <p>1. It is my assessment that even although Git was installed on this Virtual Machine it was not used to download / upload a copy of the source code. Visual Studio can be used to pull down and deploy code directly to the web site.</p>
15.2	<p><i>Screen print of Visual Studio Installation</i></p> 
15.3	<p><i>Screen print of Git Installation</i></p>

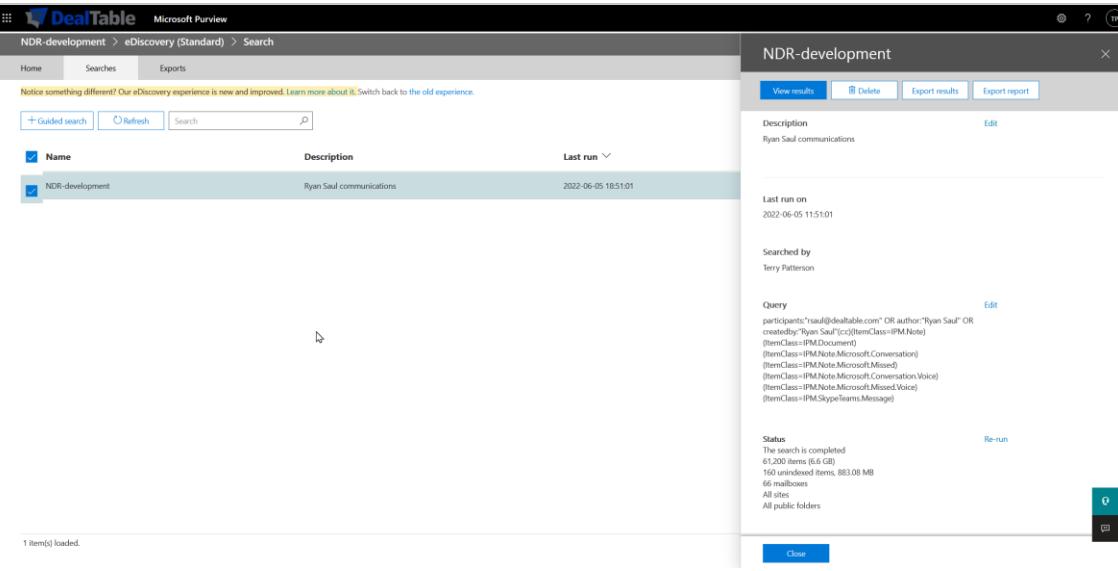
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15.4	<p><i>Screen print of Visual Studio publish methods.</i></p>  <pre> <publishData> <publishProfile profileName="dev-dealtable - Web Deploy" publishMethod="MSDeploy" publishUrl="dev-dealtable.scm.azurewebsites.net:443" msdeploySite="dev-dealtable" userName="\$dev-dealtable" userPWD="" destinationAppUrl="http://dev-dealtable.azurewebsites.net" SQLServerDBConnectionString="" mySQLDBConnectionString="" hostingProviderForumLink="" controlPanelLink="http://windows.azure.com" webSystem="WebsSites"><databases> </publishProfile><publishProfile profileName="dev-dealtable - FTP" publishMethod="FTP" publishUrl="ftp://waws-prod-blw-199.ftp.azurewebsites.windows.net/site/wwwroot" ftpPassiveMode="True" userName="dev-dealtable\\$dev-dealtable" userPWD="" destinationAppUrl="http://dev-dealtable.azurewebsites.net" SQLServerDBConnectionString="" mySQLDBConnectionString="" hostingProviderForumLink="" controlPanelLink="http://windows.azure.com" webSystem="WebsSites"><databases> </publishProfile><publishProfile profileName="dev-dealtable - Zip Deploy" publishMethod="ZipDeploy" publishUrl="dev-dealtable.scm.azurewebsites.net:443" userName="\$dev-dealtable" userPWD="" destinationAppUrl="http://dev-dealtable.azurewebsites.net" SQLServerDBConnectionString="" mySQLDBConnectionString="" hostingProviderForumLink="" controlPanelLink="http://windows.azure.com" webSystem="WebsSites"><databases> </publishProfile></publishData> </pre>

16	<p>Review, assess, and report on the time, frequency and participants involved in MS teams daily scrub meetings held between September 26,2021 and January 18,2022.</p>
16.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> 1. Communications for this team seem to have been informal and not consistent. 2. Mostly communications were directly between Ryan and Thomas Concanon 3. There were no requests to meet that were ignored by either party. <p>Reviewer Summary</p>

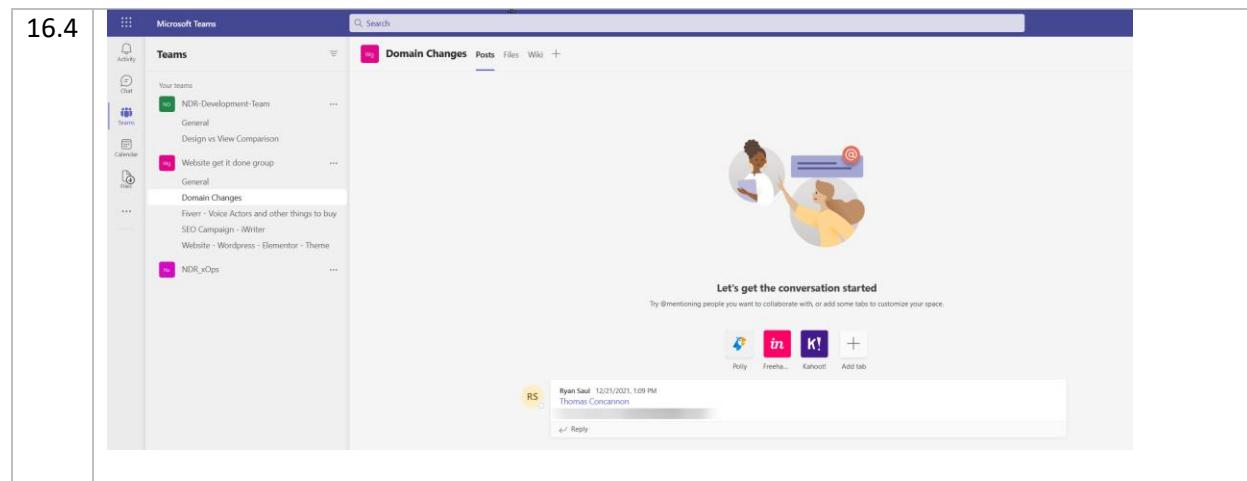
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	<p>1. I have assessed that regular meetings or agile scrums did not occur on this project and all communications were based on the required updates and status of the updates.</p>																											
16.2	<p><i>Email communications found using Microsoft compliance search</i></p> <p>NDR-dealtable-development-communications samples</p> <p>Download list Refresh 1 selected Search Customize columns</p> <table> <thead> <tr> <th>Subject/Title</th> <th>Date ↑</th> <th>Sender/Author</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> No Subject</td> <td>Dec 15, 2021 5:29 PM</td> <td>thomasc@networkdatarooms.com</td> </tr> <tr> <td>No Subject</td> <td>Jan 6, 2022 10:16 PM</td> <td>rsaul@dealtable.com</td> </tr> <tr> <td>No Subject</td> <td>Jan 6, 2022 10:26 PM</td> <td>thomasc@networkdatarooms.com</td> </tr> <tr> <td>No Subject</td> <td>Jan 6, 2022 10:26 PM</td> <td>rsaul@dealtable.com</td> </tr> <tr> <td>No Subject</td> <td>Jan 6, 2022 10:26 PM</td> <td>thomasc@networkdatarooms.com</td> </tr> <tr> <td>No Subject</td> <td>Jan 6, 2022 10:28 PM</td> <td>rsaul@dealtable.com</td> </tr> <tr> <td>No Subject</td> <td>Jan 6, 2022 10:55 PM</td> <td>rsaul@dealtable.com</td> </tr> <tr> <td>No Subject</td> <td>Jan 6, 2022 10:55 PM</td> <td>rsaul@dealtable.com</td> </tr> </tbody> </table>	Subject/Title	Date ↑	Sender/Author	<input checked="" type="checkbox"/> No Subject	Dec 15, 2021 5:29 PM	thomasc@networkdatarooms.com	No Subject	Jan 6, 2022 10:16 PM	rsaul@dealtable.com	No Subject	Jan 6, 2022 10:26 PM	thomasc@networkdatarooms.com	No Subject	Jan 6, 2022 10:26 PM	rsaul@dealtable.com	No Subject	Jan 6, 2022 10:26 PM	thomasc@networkdatarooms.com	No Subject	Jan 6, 2022 10:28 PM	rsaul@dealtable.com	No Subject	Jan 6, 2022 10:55 PM	rsaul@dealtable.com	No Subject	Jan 6, 2022 10:55 PM	rsaul@dealtable.com
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16.3	 <p>The screenshot shows the Microsoft Purview eDiscovery (Standard) interface. The search results for 'NDR-development' are displayed, showing a single item: 'NDR-development' with a description of 'Ryan Saul communications' and a 'Last run' date of '2022-06-05 18:51:01'. The search query is visible in the 'Query' section, and the status indicates 61,200 items (6.6 GB) found, with 66 matches, all sites, and all public folders.</p>																											

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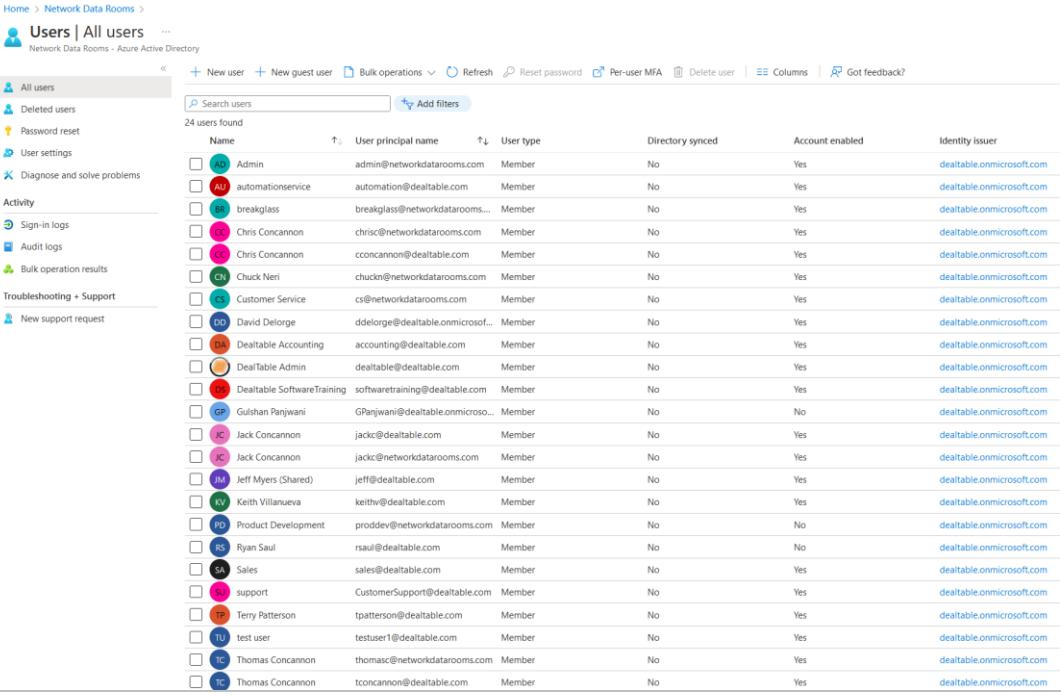
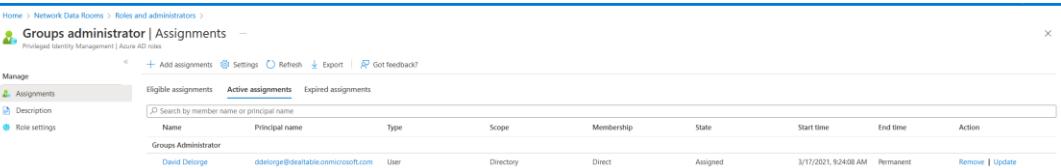


17	Review, assess and report on any other information and records the independent expert deems pertinent.
	<p>Reviewers Comments</p> <ol style="list-style-type: none"> 1. Some Azure logs are not available, so I am not able to independently verify some of the user level transactions during for period 9-26-2021 through 1-18-2022 so I have opted out of those assessments which include scope of review items (8), (13) and (14). 2. I have reviewed the court transcripts and signed declarations of both parties. 3. I have reviewed screen prints and statements made by both parties 4. I have identified that screen prints provided by NDR look authentic and are accepted by the courts as evidence. 5. I do not know or support any party in this case and an independent expert. 6. I have not received direction or communicated with any party during this review outside of the approved Order Re-Scope of Review. 7. I believe my assessments to be accurate based on my over 35 years of working as a consultant, developer, and security architect in this industry.

18	Review and report all the users to the NDRs Microsoft Azure account from September 26,2021 through February 15,2022, including a description of security level, permissions, and access but without disclosing information that would compromise the security of NDR's Microsoft Azure Account.
18.1	<p>Reviewers Comments</p> <ol style="list-style-type: none"> 1. There are 24 Azure login accounts, at least 10 are service accounts 2. Azure Event and Sign-In logs are kept for 30 days and then recycled. 3. Account delegations and roles follow best practices

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	<p><u>Reviewer Summary</u></p> <p>1. There are no permissions assigned to accounts in Office 365 or Azure that would allow a resource or user individual account to be breached without knowledge or consent of the key stakeholders.</p>																																																																																																																																																						
18.2	 <table border="1"> <thead> <tr> <th>Name</th> <th>User principal name</th> <th>User type</th> <th>Directory synced</th> <th>Account enabled</th> <th>Identity issuer</th> </tr> </thead> <tbody> <tr><td>Admin</td><td>admin@networkdatarooms.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>automationservice</td><td>automation@dealtable.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>breakglass</td><td>breakglass@networkdatarooms...</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>Chris Concannon</td><td>chrisc@networkdatarooms.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>Chris Concannon</td><td>cconcannon@dealtable.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>Chuck Neri</td><td>chuckn@networkdatarooms.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>Customer Service</td><td>cs@networkdatarooms.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>David Delorge</td><td>ddelorge@dealtable.onmicrosoft...</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>Dealtable Accounting</td><td>accounting@dealtable.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>Dealtable Admin</td><td>dealtable@dealtable.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>Dealtable SoftwareTraining</td><td>softwaretraining@dealtable.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>Gulshan Panjwani</td><td>GPanjwani@dealtable.onmicrosoft...</td><td>Member</td><td>No</td><td>No</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>Jack Concannon</td><td>jackc@dealtable.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>Jack Concannon</td><td>jackc@networkdatarooms.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>Jeff Myers (Shared)</td><td>jeff@dealtable.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>Keith Villanueva</td><td>keithv@dealtable.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>Product Development</td><td>proddev@networkdatarooms.com</td><td>Member</td><td>No</td><td>No</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>Ryan Saul</td><td>rsaul@dealtable.com</td><td>Member</td><td>No</td><td>No</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>Sales</td><td>sales@dealtable.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>support</td><td>CustomerSupport@dealtable.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>Terry Patterson</td><td>tpatterson@dealtable.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>test user</td><td>testuser1@dealtable.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>Thomas Concannon</td><td>thomasc@networkdatarooms.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> <tr><td>Thomas Concannon</td><td>tconcannon@dealtable.com</td><td>Member</td><td>No</td><td>Yes</td><td>dealtable.onmicrosoft.com</td></tr> </tbody> </table>	Name	User principal name	User type	Directory synced	Account enabled	Identity issuer	Admin	admin@networkdatarooms.com	Member	No	Yes	dealtable.onmicrosoft.com	automationservice	automation@dealtable.com	Member	No	Yes	dealtable.onmicrosoft.com	breakglass	breakglass@networkdatarooms...	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Terry Patterson	tpatterson@dealtable.com	Member	No	Yes	dealtable.onmicrosoft.com																																																																																																																																																		
test user	testuser1@dealtable.com	Member	No	Yes	dealtable.onmicrosoft.com																																																																																																																																																		
Thomas Concannon	thomasc@networkdatarooms.com	Member	No	Yes	dealtable.onmicrosoft.com																																																																																																																																																		
Thomas Concannon	tconcannon@dealtable.com	Member	No	Yes	dealtable.onmicrosoft.com																																																																																																																																																		
18.2	<p>One Global Admin assigned</p>  <table border="1"> <thead> <tr> <th>Name</th> <th>Principal name</th> <th>Type</th> <th>Scope</th> <th>Membership</th> <th>State</th> <th>Start time</th> <th>End time</th> <th>Action</th> </tr> </thead> <tbody> <tr><td>David Delorge</td><td>ddelorge@dealtable.onmicrosoft.com</td><td>User</td><td>Directory</td><td>Direct</td><td>Assigned</td><td>3/17/2021, 9:24:08 AM</td><td>Permanent</td><td>Remove Update</td></tr> </tbody> </table>	Name	Principal name	Type	Scope	Membership	State	Start time	End time	Action	David Delorge	ddelorge@dealtable.onmicrosoft.com	User	Directory	Direct	Assigned	3/17/2021, 9:24:08 AM	Permanent	Remove Update																																																																																																																																				
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18.2	Subscription Owners limited to service accounts and key stakeholders only																																																																																																																																																						

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NETWORK DATA ROOMS, LLC vs SAULREALISM LLC et al
 Terry Patterson - independent expert review

NDR Development Subscription | Access control (IAM)

Subscription

Search (Ctrl + f) Add Download role assignments Edit columns Refresh Remove Got feedback?

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Security Events

Cost Management Cost analysis Cost alerts Budgets Advisor recommendations Billing Invoices

Settings Programmatic deployment Billing properties Resource groups Resources Preview features Usage + quotas Policies Management certificates My permissions Resource providers Deployments

Check access Role assignments Roles Deny assignments Classic administrators

Number of role assignments for this subscription 15 2000

Search by name or email Type: All Role: All Scope: All scopes Group by: Role

12 items (8 Users, 4 Service Principals)

Name	Type	Role	Scope	Condition
Contributor				
Dealtable-NDR-2021-69af0d5ec-b379-0000-0000-000000000000	App	Contributor	This resource	None
P-NDRWVD-AA-01_lyXKguUqdWnaee	App	Contributor	This resource	None
ServicePrincipalAutomator	App	Contributor	This resource	None
Owner				
automationservice	User	Owner	This resource	None
automation@dealtable.com	User	Owner	This resource	None
ddelorge@dealtable.onmicrosoft.com	User	Owner	This resource	None
jack.concannon@networkdatarooms.com	User	Owner	This resource	None
thomas.concannon@networkdatarooms.com	User	Owner	This resource	None
thomas.concannon@dealtable.com	User	Owner	This resource	None
terry.patterson@dealtable.com	User	Owner	This resource	None
User Access Administrator				
David Delorge	User	User Access Administrator	Root (Inherited)	None
ddelorge@dealtable.onmicrosoft.com	User	User Access Administrator	Root (Inherited)	None
jack.concannon@networkdatarooms.com	User	User Access Administrator	Root (Inherited)	None
MS-PM	App	User Access Administrator	This resource	None